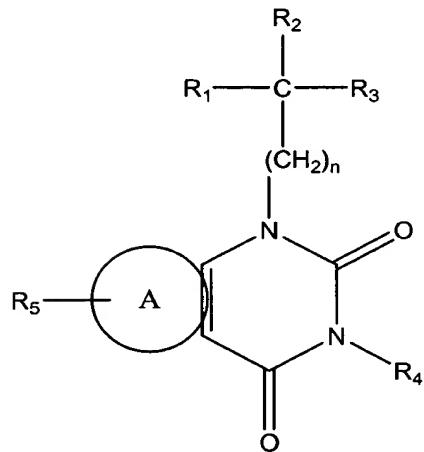


AMENDMENTS TO THE CLAIMS:

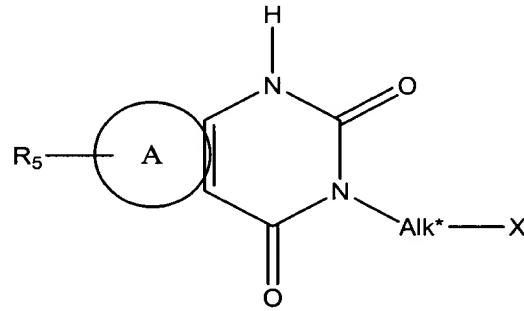
This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A polycyclic (pyrimidine-2,4(1H, 3H)-dione) with functionalized alkyl groups in the 1-, 3-, or both positions with the general structures Ia and Ib,



(Ia)



(Ib)

where:

R^1 is hydrogen, methyl, or ethyl

R^2 is hydrogen or methyl

R^3 is mercapto or hydroxyaminoacylalkylthio (-SAlkCONHOH)

Alk is C₁-C₅ branched or unbranched alkyl (C₄-C₅, branched and unbranched)

R⁴ [R4] is hydrogen, benzyl, or phenyl

n is 0, 1 or 2,

Alk* is C₂-C₁₂ branched or unbranched alkylene, {C₂-C₁₂; branched or unbranched, with the exception of 3-methylpropylene [-CH₂-CH₂-CH(CH₃)-]}

X is mercapto or hydroxyaminoacylalkylthio (-SAlkCONHOH)

A is an annealed benzene ring

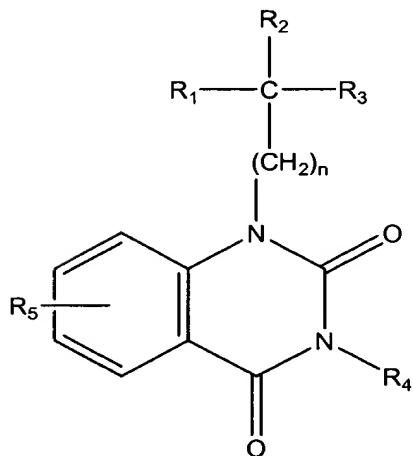
or

a 2,3-annealed thiophene ring, which may in the 4,5-positions be substituted with methyl groups or annealed with a cyclopentene, cyclohexene, or cycloheptene rings,

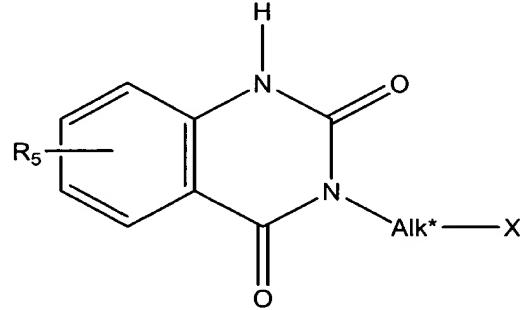
R^5 is hydrogen, 6-methyl, 8-methyl, 6-fluoror, 6-choloro, 6-bromo, 6-methylthio, or 6,7-dimethoxy,

as well as the tautomers and pharmacologically relevant salts of these compounds.

2. (Currently Amended) A chinazolin-2,4(1H,3H)-dione with functionalized Chinazolin-2,4(1H,3H)-diones with functionalized alkyl groups in the 1-, 3-, or both positions according to as described in Claim 1 with for the general structures IIa and IIb



(IIa)



(IIb)

where with R¹, R², R³, R⁴, R⁵, Alk, Alk*, n, and X are defined as in Claim 1, including their tautomers and pharmacologically relevant salts.

3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) A pharmaceutical composition comprising
preparation containing one or more compounds of in claim 1 and an inert
carrier, as well as commonly used filler and inert ingredients, and binders.

6. (Cancelled)

7. (New) A method of inhibiting collagenase/MMP activities in a mammal comprising administering to the mammal in need thereof an effective amount of one or more compounds of claim 1.

8. (New) A method of inhibiting tumor metastasis and invasion in a mammal comprising administering to the mammal in need thereof an effective amount of one or more compounds of claim 1.

9. (New) A method of treating UV-induced erythema in a mammal comprising administering to the mammal in need thereof an effective amount of one or more compounds of claim 1.

10. (New) A method of treating rheumatic diseases in a mammal comprising administration to the mammal in need thereof an effective amount of one or more compounds of claim 1.